

Thermostat

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Inventor: KANAZAWA NOBUYOSHI (JP)
Applicant: UCHIYA THERMOSTAT (JP)
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Abstract of DE3604021

The invention relates to a thermostat, in the case of which, in a housing, a contact element which is connected to an electrical supply lead interacts with a contact element which is supported on a contact arm, and in the case of which the contact arm is connected to an electrical supply lead and is acted on by a bimetallic element, and in the case of which the electrically effective parts are surrounded by a housing. In order to be able to manufacture such a thermostat even in miniaturised form with very low manufacturing tolerances and at a very low assembly cost, it is provided that a supporting plate and a base plate consisting of metal be arranged adjacent to the upper and lower housing walls on the inside, that the base plate carries a contact element and the supporting plate is firmly connected to a flexible contact arm at its end which is located in the housing, which contact arm carries at its free end a contact element which is opposite the said contact element, that the inner end of the supporting plate together with the end of the contact arm is held clamped in the interior of the housing by means of a wedge surface, that an insulator is arranged between the supporting plate and the base plate, which insulator holds these two plates at a fixed distance from one another and such that they cannot rotate with respect to one another, and that the contact arm carries the bimetallic plate in a central region of the same, in which region deformation of the supporting plate also forms a pivoting axis for the contact arm.